

Digital HD Video Camera Recorder

Operating Guide



Please also refer to :

<http://www.sony.net/SonyInfo/Support/>

Getting started

Recording/Playback

Saving images

Customizing your
camcorder

Others

HANDYCAM®

AVCHD
Progressive

HDMI™
ANALOG AND DIGITAL AUDIO/VIDEO

InfoLITHIUM V
SERIES

MEMORY STICK

**micro
SD
XC**



Read this first

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

Owner's Record

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call your Sony dealer regarding this product.

Model No. HDR-

Serial No. _____

Model No. AC- _____

Serial No. _____

WARNING

To reduce the risk of fire or electric shock,

1) do not expose the unit to rain or moisture.

2) do not place objects filled with liquids, such as vases, on the apparatus.

Do not expose the batteries to excessive heat such as sunshine, fire or the like.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS. DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician

for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or

even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

AC Adaptor

Do not use the AC Adaptor placed in a narrow space, such as between a wall and furniture.

Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus.

Even if your camcorder is turned off, AC power source (mains) is still supplied to it while connected to the wall outlet (wall socket) via the AC Adaptor.

Excessive sound pressure from earphones and headphones can cause hearing loss.

For Customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.call2recycle.org/>

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Battery pack/AC Adaptor

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 B/NMB-3 B

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules.

This equipment has very low levels of RF energy that are deemed to comply

without testing of specific absorption ratio (SAR).

For Customers in the U.S.A.

If you have any questions about this product, you may call:

Sony Customer Information Center
1-800-222-SONY (7669).

The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY

Model No.: HDR-CX540

Responsible Party: Sony
Electronics Inc.

Address: 16530 Via Esprillo,
San Diego, CA 92127
U.S.A.

Telephone No.: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

Trade Name: SONY

Model No.: HDR-PJ540

Responsible Party: Sony
Electronics Inc.

Address: 16530 Via Esprillo,
San Diego, CA 92127
U.S.A.

Telephone No.: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

! CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

! Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If

this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Canada

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For Customers in Europe



Hereby, Sony Corporation, declares that this equipment is in compliance

with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details, please access the following URL:

<http://www.compliance.sony.de/>

Notice for the customers in the countries applying EU Directives

Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

This product has been tested and found compliant with the limits set out in the EMC regulation for using connection cables shorter than 3 meters (9.8 feet).

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)



This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be

treated as household waste. On certain batteries this symbol might be used in combination with a chemical

symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

For Customers in Singapore

Complies with
IDA Standards
DB00353

Learning more about the camcorder (Help Guide)

Help Guide is an on-line manual. Refer to it for in-depth instructions on the many functions of the camcorder.

- 1** Access the Sony support page.
<http://www.sony.net/SonyInfo/Support/>



- 2** Select your country or region.
 - 3** Search for the model name of your camcorder within the support page.
 - Check the model name on the bottom of your camcorder.
-

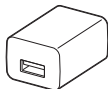
Table of Contents

Read this first	2
Learning more about the camcorder (Help Guide)	7
Getting started	8
Supplied items	8
Charging the battery pack	9
Turning the power on	11
Inserting a memory card	12
Recording/Playback ...	13
Recording	13
Playback	15
Viewing images at a larger size	17
Saving images	18
Using PlayMemories Home™	18
Connecting an external media device	19
Using the Wi-Fi function	20
Customizing your camcorder	24
Using the menus	24
Others	25
Precautions	25
Specifications	26
Parts and controls	30

Supplied items

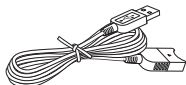
The numbers in () indicate the supplied quantity.

- Camcorder (1)
- AC Adaptor (1)

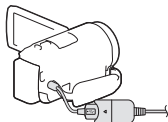


The shape of the AC Adaptor differs depending on the countries/regions.

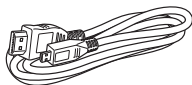
- USB connection support cable (1)



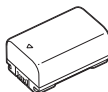
The USB connection support cable is designed for use with this camcorder only. Use this cable when the Built-in USB Cable of the camcorder is too short for connection.



- HDMI cable (1)



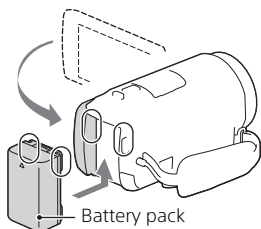
- Rechargeable battery pack NP-FV50 (1)



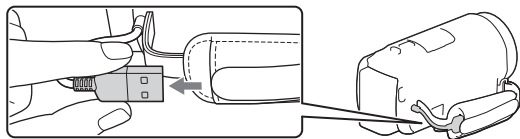
- "Operating Guide" (This manual) (1)

Charging the battery pack

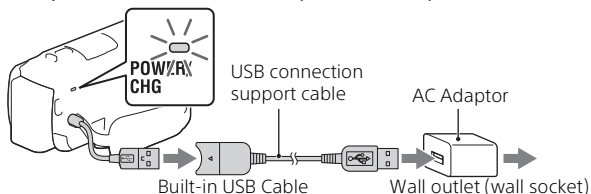
- 1 Turn off your camcorder by closing the LCD monitor, and attach the battery pack.



- 2 Pull out the Built-in USB Cable.



- 3 Connect the AC Adaptor and the camcorder with the USB connection support cable, and connect the AC Adaptor to the wall outlet (wall socket).



- The POWER/CHG (charge) lamp turns orange.
- The POWER/CHG (charge) lamp turns off when the battery pack is fully charged. Disconnect the USB connection support cable from the camcorder.
- The shape of the AC Adaptor differs depending on the countries/regions.

- Turn off your camcorder before you remove the battery pack.

| Charging the battery using your computer

Turn off your camcorder and connect the camcorder to a running computer using the Built-in USB Cable.

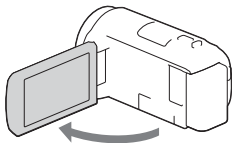
| To use your camcorder connected to the wall outlet (wall socket)

Connect the camcorder to the wall outlet (wall socket) in the same way as "Charging the battery pack."

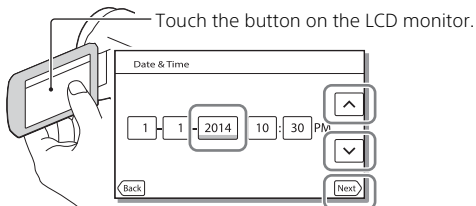
- Attach the battery pack to the camcorder.
- The battery pack may be consumed even if the camcorder is connected to the wall outlet (wall socket).

Turning the power on

- 1 Open the LCD monitor of your camcorder and turn the power on.



- 2 Following the instructions on the LCD monitor, select the language, the geographical area, Daylight Savings or Summer Time, date format, and the date and time.



- To go to the next page, touch [Next].
 - To turn off the power, close the LCD monitor.
-
- To set the date and time again, select [MENU] → [Setup] → [🕒 Clock Settings] → [Date & Time Setting].
 - To turn off the operating sound, select [MENU] → [Setup] → [🔧 General Settings] → [Beep] → [Off].

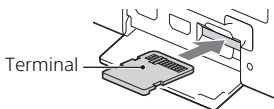
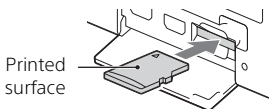
Inserting a memory card

- 1 Open the cover, and insert the memory card until it clicks.



microSD memory card

Memory Stick Micro™ (M2)
media



- The [Preparing image database file. Please wait.] screen appears if you insert a new memory card. Wait until the screen disappears.
 - Insert the memory card straight in the right direction so that the camcorder can recognize it.
-
- To select a memory card as the recording medium, select **[MENU]** → [Setup] → [Media Settings] → [Media Select] → [Memory Card]. (HDR-CX540/CX610E/PJ540/PJ540E/PJ610E)
 - To eject the memory card, open the cover and lightly push the memory card in once.

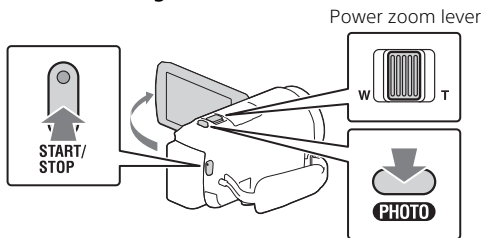
Types of memory card you can use with your camcorder

	SD Speed Class	Capacity (operation verified)
microSD memory card/ microSDHC memory card/ microSDXC memory card	Class 4 or faster	Up to 64 GB
Memory Stick Micro (Mark2) media	–	Up to 16 GB

Recording


Recording movies

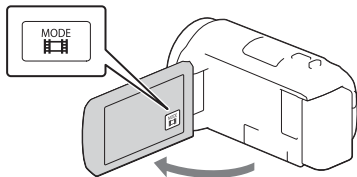
- 1 Open the LCD monitor, and press START/STOP to start recording.



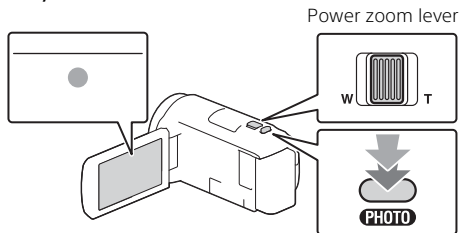
- To stop recording, press START/STOP again.
 - You can record photos during movie recording by pressing PHOTO (Dual Capture).
-
- In the default setting, movies are recorded with HD format and MP4 format simultaneously (Dual Video REC). MP4 format is easy for playing back your movies on a smartphone, for uploading to a network, or for uploading to the Web.
 - Items on the LCD monitor disappear if you do not operate the camcorder for a few seconds. To display items again, touch anywhere except the buttons on the LCD monitor.
 - You can check the recording time of a medium on the LCD monitor in the shooting mode.
 - To change the image quality of the movies you record, select **[MENU]** → **[Image Quality/Size]** → **[REC Mode]**.

Shooting photos

- 1 Open the LCD monitor and select [MODE] →  (Photo).




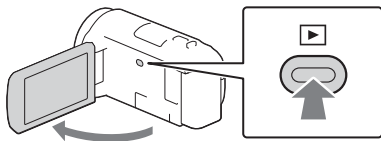
- 2 Press PHOTO lightly to adjust the focus, then press it fully.





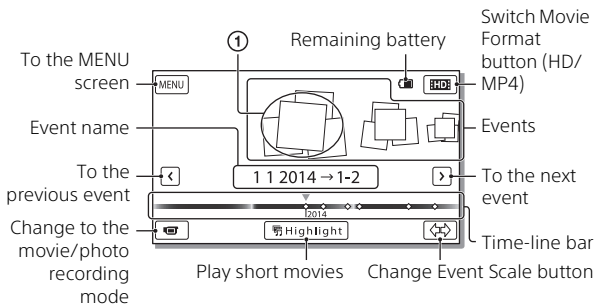
- When the focus is adjusted properly, AE/AF lock indicator appears on the LCD monitor.

Playback

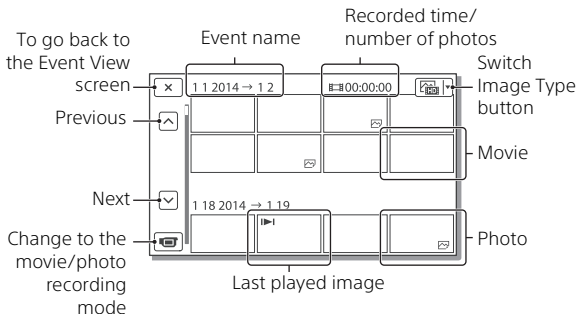
- 1 Open the LCD monitor and press the  (View Images) button on the camcorder to enter the playback mode.



- 2 Select  /  to move the desired event to the center, and then select the part circled (①) in the figure.



3 Select the image.



Playback operations

	Volume		Previous/Next
	Delete		Fast-reverse/Fast-forward
	Context		Play/Pause
	Stop		Play/Stop slide show
	Motion Shot Video		Motion Interval ADJ

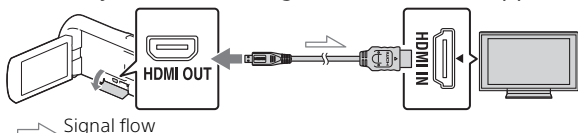
To select the format of the movie you want to play, edit, or copy to other devices

In step 2, select **[HD]** at the top right of the LCD monitor → **[HD]** HD Quality] or **[MP4]** MP4].

Viewing images at a larger size

Connecting the camcorder to a TV

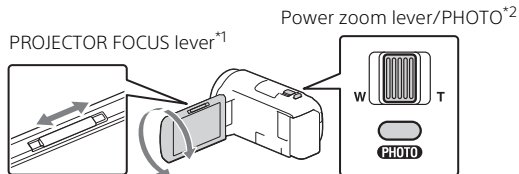
- 1 Connect the HDMI OUT jack of the camcorder to the HDMI IN jack of a TV using the HDMI cable supplied.



- If your TV does not have an HDMI jack, connect the Multi/Micro USB Terminal of the camcorder to the video/audio input jacks of the TV using an AV cable (sold separately).

Using the built-in projector (HDR-PJ530E/PJ540/PJ540E/PJ610E)

- 1 Press the PROJECTOR button (page 30).
- 2 Select [Image Shot on This Device].
- 3 Follow the operating guide on the LCD monitor, and then select [Project].



*1 Adjust the focus of the projected image.

*2 Use the power zoom lever to move the selection frame that appears on the projected image, then press the PHOTO button.

Using PlayMemories Home™

What you can do with PlayMemories Home

PlayMemories Home allows you to import movies and photos to your computer to use them in a variety of ways.



Import images from the camcorder.



Playing back imported images



For Windows, the following functions are also available.



Viewing images on Calendar



Creating movie discs



Uploading images to network services

Sharing images on PlayMemories Online™



| To download PlayMemories Home

PlayMemories Home can be downloaded from the following URL.
www.sony.net/pm/

| To check the computer system

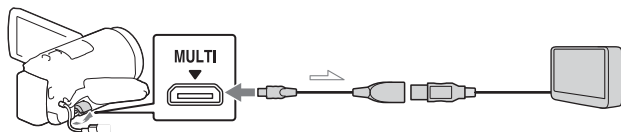
You can check the computer requirements for the software at the following URL.
www.sony.net/pcenv/



Connecting an external media device

| External media device

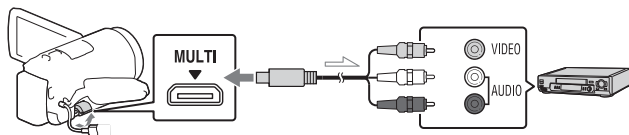
Connect an external media device to the Multi/Micro USB Terminal of your camcorder using VMC-UAM2 USB Adaptor Cable (sold separately).



- Movies are copied with high definition image quality (HD).

| Recorder without a USB jack

Connect a recorder to the Multi/Micro USB Terminal of your camcorder using an AV cable (sold separately).



- Movies are copied with standard definition image quality.

➞ Signal flow

Using the Wi-Fi function

Installing PlayMemories Mobile™ on your smartphone

For the latest information and more detailed information on the functions of PlayMemories Mobile, visit the following URL.



<http://www.sony.net/pmm/>

| Android OS

Install PlayMemories Mobile from Google play.



- Android 4.0 or higher is required to use One-Touch functions (NFC).

| iOS

Install PlayMemories Mobile from App Store.



- One-touch functions (NFC) are not available with iOS.

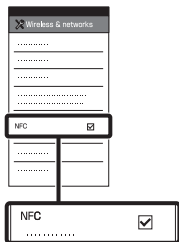
Notes

- If PlayMemories Mobile is already installed in your smartphone, update the software to the latest version.
- The Wi-Fi function described here is not guaranteed to work on all smartphones and tablets.
- The Wi-Fi function of the camcorder cannot be used connected to a public wireless LAN.
- To use the One-touch functions (NFC) of the camcorder, a smartphone or tablet supporting the NFC function is required.
- The operation methods and display screens for the application are subject to change without notice by future upgrades.

Transferring MP4 movies and photos to your smartphone

One-touch connection with an Android supporting NFC

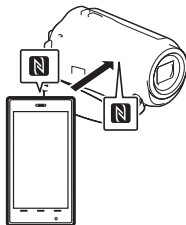
- 1 On the smartphone, select [Settings], then, select [More...] to check that [NFC] is enabled.



- 2 On the camcorder, play back an image to be sent to the smartphone.

- You can transfer MP4 movies and photos only.

- 3 Touch the camcorder to the smartphone.



Notes

- Cancel the sleep mode or unlock the screen on the smartphone beforehand.
- Make sure that **N** is displayed on the LCD monitor of the camcorder and the smartphone.
- Continue touching the camcorder to the smartphone without moving until PlayMemories Mobile starts (1 to 2 seconds).
- If the camcorder cannot be connected with the smartphone by NFC, see "Connection without using NFC" (page 21).

Connection without using NFC

- 1 Press the **▶** (View Images) button, then select **MENU** → [Edit/Copy] → [Send to Smartphone] → [Select on This Device] → image type.

- 2 Select the image you want to transfer, and add **✓**, and then select **OK** → **OK**.

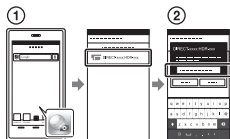
- The SSID and a password are displayed, and the camcorder is ready to be connected with the smartphone.

- 3 Connect the camcorder to the smartphone, and transfer images.

Android

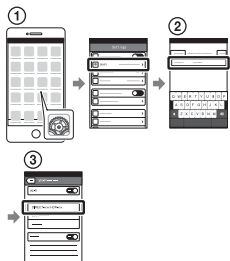
- ① Start up PlayMemories Mobile and select the SSID of the camcorder.

- ② Input the password displayed on the camcorder (first time only).



iPhone/iPad

- ① Select [Settings] → [Wi-Fi] → the SSID displayed on the camcorder.
- ② Input the password displayed on the camcorder (first time only).
- ③ Confirm that the SSID displayed on the camcorder is selected.
- ④ Return to Home, and start up PlayMemories Mobile.



Using your smartphone as a wireless remote commander

You can record with the camcorder using your smartphone as a wireless remote commander.

- 1 On your camcorder, select **MENU** → [Camera/Mic] → [Shooting Assist] → [Ctrl with Smartphone].
- 2 On your smartphone, perform in the same way as in step 3 in “Connection without using NFC” (page 21).

When you use NFC, display the recording screen on your camcorder, and touch on the camcorder to on the smartphone.

- 3 Operate the camcorder on your smartphone.

Notes

- Depending on local electrical interference or the smartphone's capabilities, the live view images may not be displayed smoothly.

Saving movies and photos to your computer via Wi-Fi

Connect your computer to a wireless access point or wireless broadband router in advance.

1 Install the dedicated software in your computer (first time only).

Windows: PlayMemories Home
www.sony.net/pm/

Mac: Wireless Auto Import
<http://www.sony.co.jp/imsoft/Mac/>

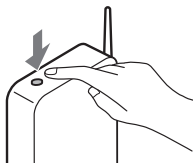
- If the software is already installed in your computer, update the software to the latest version.

2 Connect your camcorder to an access point as follows (first time only).

If you cannot register, refer to the instruction of the access point, or contact the person who set up the access point.

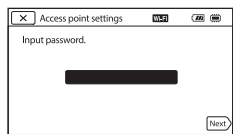
If the wireless access point has a WPS button

- ① On your camcorder, select **MENU** → [Setup] → [↔ Connection] → [WPS Push].
- ② Press the WPS button on the access point you want to register.



If you know the SSID and the password of your wireless access point

- ① On your camcorder, select **MENU** → [Setup] → [↔ Connection] → [Access point settings].
- ② Select the access point you want to register, enter the password, then select **OK**.



3 If your computer is not started, turn on the computer.

4 Start sending images from the camcorder to the computer.

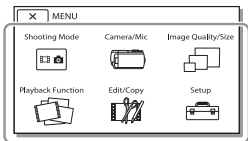
- ① Press the **▶** (View Images) button on your camcorder.
 - ② Select **MENU** → [Edit/Copy] → [Send to Computer].
- Images are automatically transferred to and saved on the computer.
 - Only newly recorded images are transferred. Importing movies and multiple photos may take time.

Using the menus

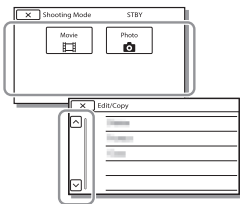
1 Select **MENU**.



2 Select a category.



3 Select a desired menu item.



Scroll the menu items up or down.

-
- Select **X** to finish setting the menu or to return to the previous menu screen.

Precautions

AC Adaptor

Do not short-circuit the battery terminal with any metallic objects. This may cause a malfunction.

Playing back images with other devices

You may not be able to play back images that were recorded on your camcorder with other devices normally. Also, you may not be able to play back images recorded on other devices with your camcorder.

Recording and playback

- Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the product. Be particularly careful with the lens.
- To ensure stable operation of the memory card, it is recommended to format the memory card with your camcorder before the first use. Formatting the memory card will erase all the data stored on it and the data will be irrecoverable. Save your important data on your PC, etc.
- Confirm the direction of the memory card. If you forcibly insert the memory card in the wrong direction, the memory card, memory card slot, or image data may be damaged.
- Before starting to record, test the recording function to make sure the image and sound are recorded without any problems.
- Television programs, films, video tapes, and other materials may be copyrighted. Unauthorized recording of such materials may be a violation of the copyright laws.
- Compensation for the content of recordings cannot be provided, even if recording or playback is not possible due to a malfunction of the camcorder, recording media, etc.

- The camcorder is not dustproofed, dripproofed or waterproofed.
- Do not let your camcorder get wet, for example, from rain or sea water. If your camcorder gets wet, it may malfunction. Sometimes this malfunction cannot be repaired.
- Do not aim the camcorder at the sun or strong light. Doing so may cause your camcorder to malfunction.
- Do not use the camcorder near strong radio waves or radiation. The camcorder may not be able to record or play back images properly.
- Do not use the camcorder on a sandy beach or anywhere dusty. Doing so may cause your camcorder to malfunction.
- If moisture condensation occurs, stop using the camcorder until moisture evaporates.
- Do not subject the camcorder to mechanical shock or vibration. If you do so, the camcorder may operate incorrectly or may not record images. In addition, the recording medium or recorded data may be damaged.

LCD monitor

The LCD monitor is manufactured using extremely high-precision technology, so over 99.99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue, or green in color) that appear constantly on the LCD monitor. These points are normal results of the manufacturing process and do not affect the recording in any way.

Camcorder temperature

If you use the camcorder continuously for a long time, the camcorder gets very warm. This is not a malfunction.

Overheat protection

Depending on the camcorder and battery temperature, you may be unable to record movies or the power may turn off automatically to protect the camcorder. A message will be displayed on the LCD monitor before the power turns off or you can no longer record movies. In this case, leave the power off and wait until the camcorder and battery temperature goes down. If you turn on the power without letting the camcorder and battery cool enough, the power may turn off again or you may be unable to record movies.

Deactivating wireless LAN (Wi-Fi, NFC, etc.) temporarily

When you board an airplane, you can deactivate the Wi-Fi function temporarily. Select **[MENU]** → **[Setup]** → **[General Settings]** → **[Airplane Mode]** → **[On]**.

Wireless LAN

We assume no responsibility whatsoever for any damage caused by unauthorized access to, or unauthorized use of, destinations loaded on the camcorder, resulting from loss or theft.

Troubleshooting

If you run into any problems using your camcorder:

- Check your camcorder referring to Help Guide (page 7).
- Disconnect the power source, attach the power source again after about 1 minute, and turn the camcorder on.
- Initialize your camcorder. All settings, including the clock setting, are reset.
- Contact your Sony dealer or local authorized Sony service facility.

Specifications

System

Signal format:

NTSC color, EIA standards (HDR-CX540/PJ540)

PAL color, CCIR standards (HDR-CX610E/PJ530E/PJ540E/PJ610E) HD TV

Movie recording format:

AVCHD (AVCHD format Ver.2.0 compatible):

Video: MPEG-4 AVC/H.264

Audio: Dolby Digital 2ch/5.1ch Dolby Digital 5.1 Creator^{*1}

MP4:

Video: MPEG-4 AVC/H.264

Audio: MPEG-4 AAC-LC 2ch

^{*1} Manufactured under license from Dolby Laboratories.

Photo file format:

DCF Ver.2.0 Compatible

Exif Ver.2.3 Compatible

MPF Baseline Compatible

Recording media (Movie/Photo):

Internal memory

HDR-CX540/PJ540/PJ540E: 32 GB

HDR-CX610E/PJ610E: 64 GB

Memory Stick Micro (Mark2) media

microSD card (Class 4 or faster)

The capacity that a user can use (Approx.)

HDR-CX540/PJ540/PJ540E: 31.1 GB^{*2}

HDR-CX610E/PJ610E: 62.4 GB^{*2}

^{*2} 1 GB equals 1 billion bytes, a portion of which is used for system management and/or application files. Only preinstalled demonstration movie may be deleted.

Image device:

3.1 mm (1/5.8 type) CMOS Sensor

Recording pixels (photo, 16:9):

Max. 9.2 mega pixels

(4 032 × 2 272)^{*3}

Gross: Approx. 2 510 000 pixels

Effective (movie, 16:9)^{*4}:

Approx. 2 290 000 pixels

Effective (photo, 16:9):

Approx. 2 290 000 pixels

Effective (photo, 4:3):

Approx. 1 710 000 pixels

Lens:

G Lens

30× (Optical)^{*4}, 60× (Clear Image Zoom, while recording movies)^{*5}, 350× (Digital)

Filter diameter: 46 mm (1 13/16 in.)

F1.8 - F4.0

Focal length:

f= 1.9 mm - 57.0 mm (3/32 in. - 2 1/4 in.)

When converted to a 35 mm still camera

For movies^{*4}:

26.8 mm - 804.0 mm

(1 1/16 in. - 31 3/4 in.) (16:9)

For photos: 26.8 mm - 804.0 mm

(1 1/16 in. - 31 3/4 in.) (16:9)

Color temperature: [Auto], [One Push], [Indoor], [Outdoor]

Minimum illumination:

6 lx (lux) (in default setting, shutter speed 1/30 second (HDR-CX540/PJ540) or 1/25 second (HDR-CX610E/PJ530E/PJ540E/PJ610E))

3 lx (lux) ([Low Lux] is set to [On], shutter speed 1/30 second (HDR-CX540/PJ540) or 1/25 second (HDR-CX610E/PJ530E/PJ540E/PJ610E))

^{*3} The unique image processing system of Sony's BIONZ-X allows still image resolution equivalent to the sizes described.

^{*4} [SteadyShot] is set to [Standard] or [Off].

^{*5} [SteadyShot] is set to [Active].

Input/Output connectors

HDMI OUT jack: HDMI micro connector

PROJECTOR IN jack (HDR-PJ530E/PJ540/PJ540E/PJ610E): HDMI micro connector

MIC input jack: Stereo minijack (φ3.5 mm)

Headphone jack: Stereo minijack (φ3.5 mm)

USB jack: Type A (Built-in USB)

Multi/Micro USB Terminal*

* Supports Micro USB compatible devices.

USB connection is only for output (HDR-CX610E/PJ530E/PJ540E/PJ610E).

LCD monitor

Picture: 7.5 cm (3.0 type, aspect ratio 16:9)

Total number of pixels: 460 800 (960 × 480)

Projector (HDR-PJ530E/PJ540/PJ540E/PJ610E)

Projection type: DLP

Light source: LED (R/G/B)

Focus: Manual

Throw Distance: 0.5 m (1.6 feet) or over

Contrast ratio: 1 500:1

Resolution (output): 640 × 360

Continuous projection time (when using the supplied battery pack): Approx. 1 h. 35 min.

Wireless LAN

Supported standard:

IEEE 802.11 b/g/n

Frequency: 2.4 GHz

Supported security protocols: WEP/WPA-PSK/WPA2-PSK

Configuration method: WPS (Wi-Fi Protected Setup)/manual

Access method: Infrastructure Mode

NFC: NFC Forum Type 3 Tag compliant

General

Power requirements: DC 6.8 V/7.2 V (battery pack), DC 5 V 1 500 mA (AC Adaptor), DC 8.4 V (DC IN jack)

USB Charging: DC 5 V 1 500 mA

Average power consumption:

During camera recording using LCD monitor at normal brightness:
2.4 W

Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)

Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F)

Dimensions (approx.):

HDR-CX540/CX610E:

57.5 mm × 66.5 mm × 121 mm
(2 1/4 in. × 2 5/8 in. × 4 7/8 in.)
(w/h/d) including the projecting parts

57.5 mm × 66.5 mm × 130.5 mm
(2 1/4 in. × 2 5/8 in. × 5 1/4 in.)
(w/h/d) including the projecting parts, the supplied rechargeable battery pack attached

HDR-PJ530E/PJ540/PJ540E/
PJ610E:

61.5 mm × 66.5 mm × 121 mm
(2 1/2 in. × 2 5/8 in. × 4 7/8 in.)
(w/h/d) including the projecting parts

61.5 mm × 66.5 mm × 130.5 mm
(2 1/2 in. × 2 5/8 in. × 5 1/4 in.)
(w/h/d) including the projecting parts, the supplied rechargeable battery pack attached

Mass (approx.)

HDR-CX540/CX610E:

305 g (10.8 oz) main unit only

360 g (12.7 oz) including the supplied rechargeable battery pack

HDR-PJ530E/PJ540/PJ540E/
PJ610E:

325 g (11.5 oz) main unit only

380 g (13.4 oz) including the supplied rechargeable battery pack

AC Adaptor AC-UUD11

Power requirements: AC 100 V - 240 V, 50 Hz/60 Hz

Current consumption: 200 mA

Power consumption: 11 W

Output voltage: DC 5.0 V, 1 500 mA

Operating temperature: 0 °C to 50 °C (32 °F to 122 °F)

Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F)

Rechargeable battery pack NP-FV50

Maximum output voltage: DC 8.4 V

Output voltage: DC 6.8 V

Maximum charge voltage: DC 8.4 V

Maximum charge current: 2.1 A

Capacity

Typical: 7.0 Wh (1 030 mAh)

Minimum: 6.6 Wh (980 mAh)

Type: Li-ion


Design and specifications of your camcorder and accessories are subject to change without notice.

Estimated time of charging, recording, and playback using the supplied battery pack


Charging time (minutes)	
AC Adaptor (supplied)	165
Computer	305
Recording time (minutes)	
Continuous	155
Typical	75
Playback time (minutes)	240

- The charging times are measured when charging the camcorder at a room temperature of 25 °C (77 °F)

without using the USB Connection support cable.

- The recording and playback times are measured when using the camcorder at 25 °C (77 °F).
- The recording times are measured when recording movies with the default settings ([ REC Mode]: [Standard **HQ**], [Dual Video REC]: [On]).
- Typical recording time shows the time when you repeat recording start/stop, switching the [Shooting Mode], and zooming.

Trademarks

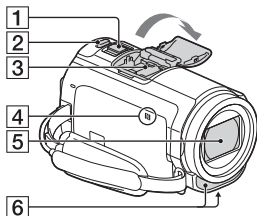
- AVCHD, AVCHD Progressive, AVCHD logotype and AVCHD Progressive logotype are trademarks of Panasonic Corporation and Sony Corporation.
- Memory Stick and  are trademarks or registered trademarks of Sony Corporation.
- Blu-ray Disc™ and Blu-ray™ are trademarks of the Blu-ray Disc Association.
- Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- Microsoft, Windows, and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Mac and Mac OS are registered trademarks of Apple Inc. in the United States and other countries.
- Intel, Intel Core, and Pentium are trademarks of Intel Corporation in the U.S. and/or other countries.
- microSDXC logo is a trademark of SD-3C, LLC.

- Android, Google Play are trademarks of Google Inc.
- iOS is a registered trademark or trademark of Cisco Systems, Inc.
- Wi-Fi, the Wi-Fi logo, Wi-Fi PROTECTED SET-UP are registered trademarks of the Wi-Fi Alliance.
- The N Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
- Facebook and the “f” logo are trademarks or registered trademarks of Facebook, Inc.
- YouTube and the YouTube logo are trademarks or registered trademarks of Google Inc.
- iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.

All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, ™ and ® are not mentioned in each case in this manual.

Parts and controls

Figures in () are reference pages.



- 1** Power zoom lever (13, 14)
- 2** PHOTO button (14)
- 3** Multi interface shoe

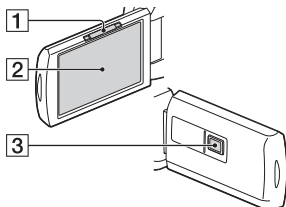


For details on compatible accessories of the Multi interface shoe, visit the Sony web site in your area, or consult your Sony dealer or local authorized Sony service facility.

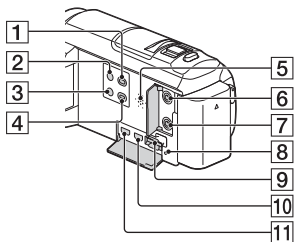
Operations with other manufacture's accessories are not guaranteed.

If you use a shoe adaptor (sold separately), you can also use accessories compatible with an Active Interface Shoe.

- 4** N mark (21)
NFC: Near Field Communication
- 5** Lens (G lens)
- 6** Built-in microphone

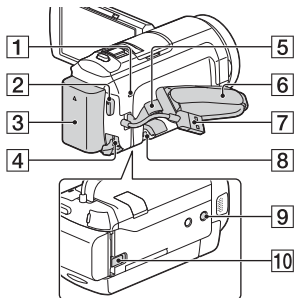


- 1** PROJECTOR FOCUS lever (17)
(HDR-PJ530E/PJ540/PJ540E/
PJ610E)
- 2** LCD monitor/Touch panel
- 3** Projector lens (HDR-PJ530E/
PJ540/PJ540E/PJ610E)



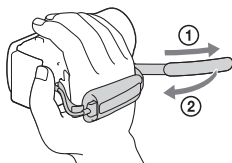
- 1** (View Images) button (15)
- 2** POWER button
- 3** My Voice Canceling button
Suppresses the voice of the person recording the movie.
- 4** PROJECTOR button (17) (HDR-PJ530E/PJ540/PJ540E/
PJ610E)
- 5** Speaker
- 6** (microphone) jack (PLUG IN POWER)
- 7** (headphones) jack
- 8** Memory card access lamp (12)

- 9** Memory card slot (12)
- 10** HDMI OUT jack
- 11** PROJECTOR IN jack (17) (HDR-PJ530E/PJ540/PJ540E/PJ610E)



- 1** POWER/CHG (charge) lamp (9)
- 2** START/STOP button (13)
- 3** Battery pack (9)
- 4** DC IN jack
- 5** Loop for a shoulder belt
- 6** Grip belt
- 7** Built-in USB Cable (9)
- 8** Multi/Micro USB Terminal
Supports Micro USB compatible devices.
This terminal does not support VMC-AVM1 Adaptor Cable (sold separately). You cannot use accessories via an A/V remote connector.
- 9** Tripod receptacle
- 10** BATT (battery) release lever

| To fasten the grip belt



Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.

<http://www.sony.net/>



SONY



FOR CANADIAN CUSTOMERS ONLY
AUX CLIENTS DU CANADA SEULEMENT



Receive **15% off** your next purchase of select Digital Imaging accessories.

Thank you for purchasing a Sony Digital Imaging Product. Register your new Sony Product at www.Sony.ca/Registration to receive an accessory e-coupon* for 15% off the purchase of one eligible accessory online at www.sony.ca

Cannot be combined with any other offer. This offer is not valid on DVDirect®, Printers, media, or Digital Photo Frame purchases. For full terms and conditions and a list of eligible accessories visit www.Sony.ca/Registration. Offer subject to availability.

For Interchangeable lens camera owners: Join the owner's community to learn about special offers and exciting owner's events by making sure you opt in to receive communication from Sony.

Recevez **15 %** de rabais sur votre prochain achat d'accessoires d'imagerie numérique sélectionnés.

Merci d'avoir fait l'achat d'un produit d'imagerie numérique Sony. Enregistrez votre nouveau produit Sony à www.Sony.ca/Enregistrement pour recevoir un cybercoupon d'accessoire* vous donnant droit à 15 % de rabais sur l'achat d'un accessoire admissible en ligne à www.sony.ca/fr

Ne peut être combinée à aucune autre offre. Cette offre n'est pas valide sur l'achat de DVDirect^{MD}, imprimantes, supports ou cadres numériques. Pour consulter les modalités complètes et une liste des accessoires admissibles, visitez www.Sony.ca/Enregistrement. Offre sujette à disponibilité et pouvant prendre fin à tout moment sans préavis.

Aux propriétaires d'appareils photo à objectifs interchangeables : Joignez-vous à la communauté de propriétaires pour en savoir plus sur les offres spéciales et événements emballants pour les propriétaires en choisissant de recevoir les communications de Sony.

Important: This is not a coupon number or a coupon
Remarque importante: Il ne s'agit pas d'un coupon ni d'un numéro de coupon

Sony and DVDirect are trademarks or registered trademarks of Sony Corporation.
Sony et DVDirect sont des marques de commerce ou des marques déposées de Sony Corporation.

Printed in China



4-527-401-01

SONY

15%
off



FOR US CUSTOMERS ONLY

don't forget to register your new Sony product today.

www.sony.com/register

Thank you for purchasing a Digital Imaging Product from Sony. Now register your new Sony® Digital Imaging product to receive the following benefits:

- Be notified of firmware and software updates for your new product
- Be alerted of special offers or workshops and classes
- 15% discount on the purchase of select Sony® accessories at the online Sony store* when you register your Sony Digital Imaging product within 30 days of purchase



*For the full terms and conditions, visit www.sony.com/register. Features, specifications and price are subject to change without notice. Offer subject to availability. Customer Support: If you have any questions or comments related to this product, please visit our Customer Support website at sony.com/support (if you do not have Internet access, please call 1-800-222-7669 or 1-800-222-SONY).

© 2013 Sony Electronics Inc.
All rights reserved.

Sony and the Sony logo are trademarks of Sony.

Printed in China



4-527-402-01

SONY

HANDYCAM®



ACCESSORIES

ACCESSOIRES ACCESORIOS

USA:
www.sony.com/camaccy

Europe:
www.sony-europe.com/

Mid-East:
www.sony-mea.com

Latin America:
www.sony-latin.com/handycam/

Asia Pacific:
www.sony-asia.com/section/product

ActiFORCE™
InfoLITHIUM™ **V**



NP-FV50



NP-FV70



NP-FV100

InfoLITHIUM™ **VHP**

100v-240v



BC-QM1



BC-TRV

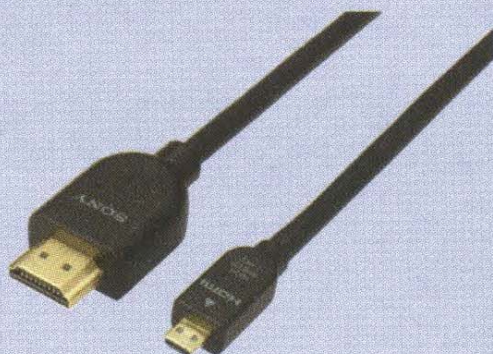
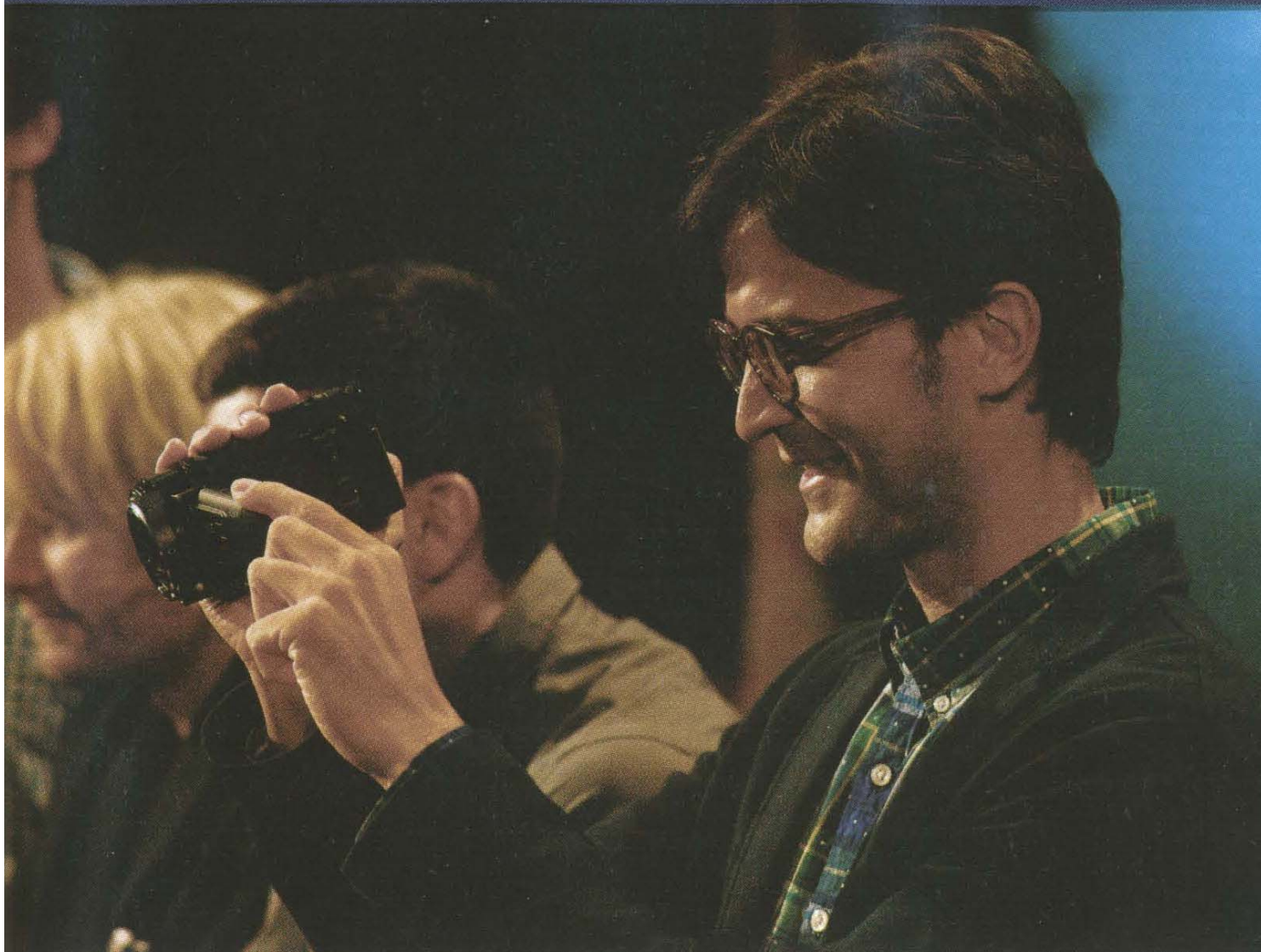


InfoLITHIUM™ **V**



ACC-TCV5





HDMI™
HIGH SPEED
with **ETHERNET**

1.5m/4.8ft
1,5m/4,8pi
1,5m/4,8pies
DLC-HEUT5

3.0m/9.6ft
3,0m/9,6pi
3,0m/9,6pies
DLC-HEU30

DLC-HEU15/30

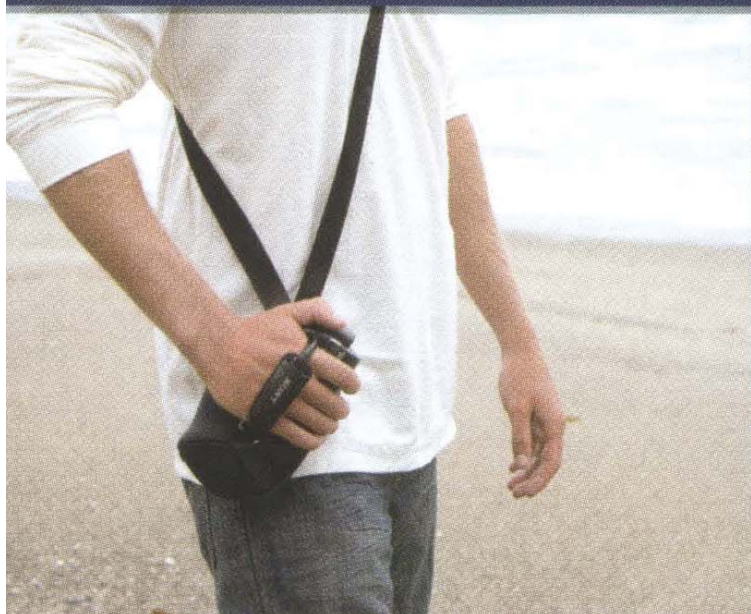
MULTI



Storage device / Périphère de stockage
Dispositivo de almacenamiento

VMC-UAM2

Case Housse Bolsa



LCS-BBJ



Compatibility • Compatibilité • Compatibilidad:
HDR-CX530/535/540/610, HDR-PJ530/540/610



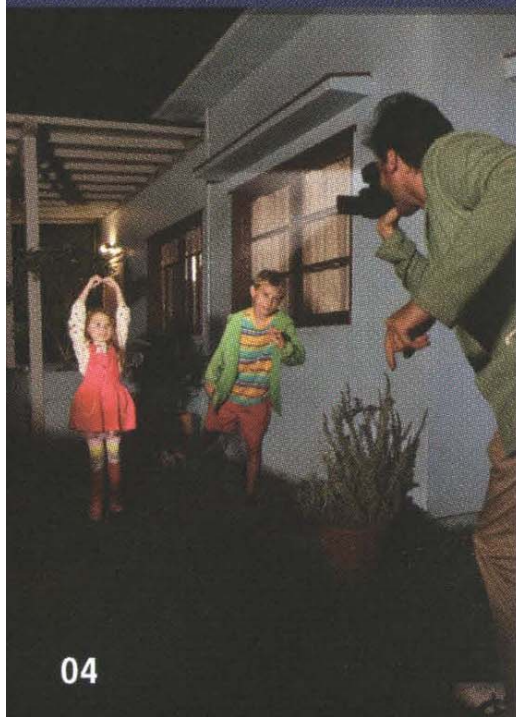
LCS-BBH



LCS-U11

LCS-U21

Light Lumière Luz



ni Multi
Interface Shoe

Accessory Shoe

Griffe porte-accessoires
Zapata para accesorios

LED

**IR for
NightShot**

IR pour NightShot
IR para NightShot



- * Only works for cameras with NightShot function.
- * Ne fonctionne que pour les appareils avec la fonction NightShot.
- * Sólo funciona para las cámaras con función NightShot.
- * Совместимо только с камерами с функцией NightShot.
- * 僅在帶 NightShot 功能的相機上工作。

HVL-LEIR1

ni Multi Interface Shoe

External MIC INPUT

MIC INPUT externe
Entrada MIC INPUT externa



ECM-W1M

ni Multi Interface Shoe

GUN/ZOOM Mode

Mode GUN/ZOOM
Modo GUN/ZOOM



ECM-GZ1M

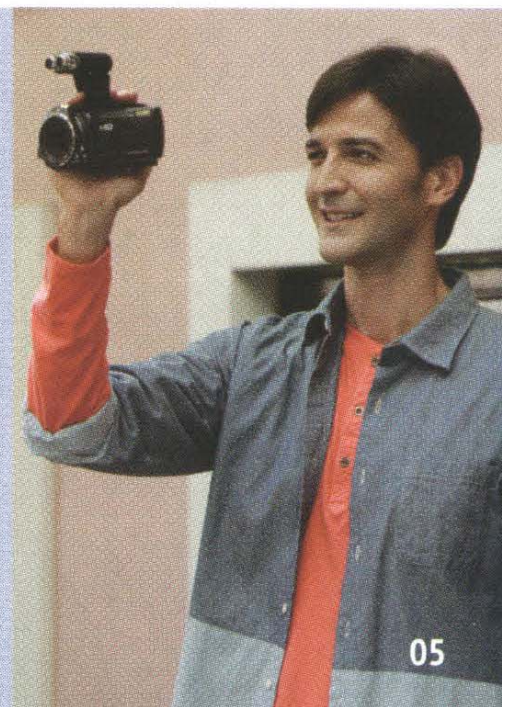
ni Multi Interface Shoe

Accessory Shoe

Griffe porte-accessoires
Zapata para accesorios



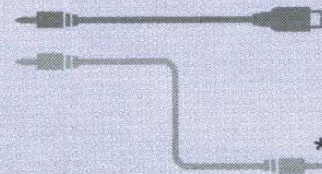
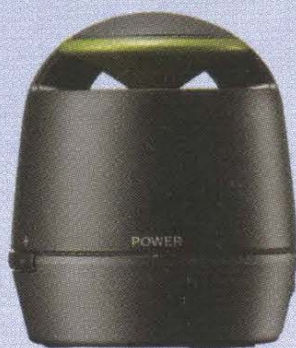
120°



ECM-XYST1M



MULTI



- * Optional audio cable required.
- * Haut-parleur portable.
- * Altavoz portátil.
- * Требуется дополнительный аудиокабель.
- * 需要可選的音訊纜線。

RDP-CA2



Tripod Trépied Trípode

MULTI



VCT-R640



VCT-VPR1

MULTI

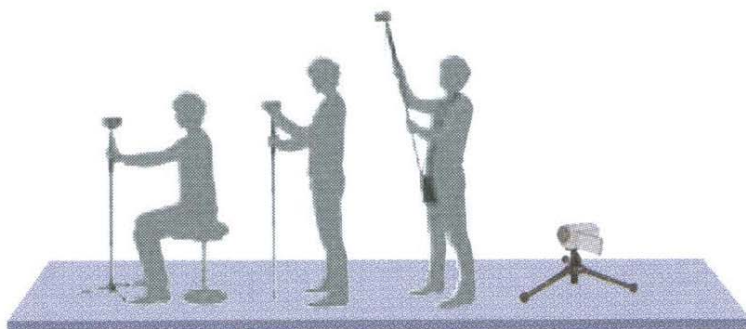
A/V R

REMOTE



VCT-VPR10

Multipod Multipied Multiplié



VCT-MP1

EN All rights reserved. Reproduction in whole or part is prohibited. Not all models are available in all countries/regions. Pictures used in this leaflet are image photos. Features and specifications in this leaflet are subject to change without notice. The following are trademarks or registered trademarks of the Sony Corporation: "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" and their respective logos. The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. All other trademarks are the property of their respective owners. Some images are simulated for illustration purposes.

ES Todos los derechos reservados. Prohibida la reproducción total o parcial. No todos los modelos están disponibles en todos los países/regiones. Las imágenes utilizadas en este catálogo son imágenes fotográficas. "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" y sus respectivos logotipos son marcas comerciales o marcas comerciales registradas de Sony Corporation. Los términos HDMI y HDMI High-Definition Multimedia Interface, y el logotipo de HDMI son marcas comerciales o marcas comerciales registradas de HDMI Licensing LLC en los Estados Unidos y en otros países. Todas las demás marcas comerciales pertenecen a sus respectivos propietarios. Algunas imágenes han sido simuladas para fines ilustrativos.

IT Tutti i diritti riservati. Nessuna parte di questa pubblicazione può essere riprodotta. Non tutti i modelli sono disponibili in tutte le nazioni/regioni. Le illustrazioni utilizzate sono immagini fotografiche. Le caratteristiche e le specifiche tecniche possono essere soggette a variazioni senza preavviso. "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" e i rispettivi loghi sono marchi o marchi registrati di Sony Corporation. I termini HDMI e HDMI High-Definition Multimedia Interface, così come il logo HDMI, sono marchi o marchi registrati di HDMI Licensing LLC negli Stati Uniti e in altri paesi. Tutti gli altri marchi di fabbrica appartengono ai rispettivi proprietari. Alcune immagini sono da considerarsi esclusivamente a scopo dimostrativo.

NL Alle rechten voorbehouden. Niets uit deze brochure mag worden veeveelvoudigd. Niet alle modellen zijn in alle landen/regio's verkrijgbaar. De in deze brochure gebruikte foto's zijn voorbeeldfoto's. De functies en specificaties in deze brochure kunnen zonder voorafgaande kennisgeving worden gewijzigd. De volgende merken zijn handelsmerken of gedeponeerde handelsmerken van Sony Corporation: "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" en hun respectieve logo's. De termen HDMI en HDMI High-Definition Multimedia Interface en het HDMI-logo zijn handelsmerken of gedeponeerde handelsmerken van HDMI Licensing LLC in de Verenigde Staten en andere landen. Alle andere handelsmerken zijn de eigendom van hun respectieve eigenaars. Bepaalde afbeeldingen zijn gesimuleerd voor illustratieve doeleinden.

CT 保留所有版權。禁止完整或部分的複製。並非所有國家/地區都銷售所有主流型號。本宣傳頁中的資料如有更改，恕不另行通知。以下是索尼公司的商標或註冊商標："Sony"、"Handycam"、"InfoLITHIUM"、"ActiFORCE"及其各自的標識。HDMI名稱、HDMI High-Definition Multimedia Interface名稱和HDMI標誌是HDMI Licensing LLC在美國和其他國家的商標或註冊商標。所有其他商標乃其個別擁有人之商標。其些仿真圖示僅供參考。

MY Hak Cipta Terpelihara. Penghasilan secara keseluruhan atau sebahagian adalah dilarang. Tidak semua model yang ditunjukkan boleh didapati di semua negara/rantau. Maklumat terkandung dalam risalah ini tertakluk kepada pertukaran tanpa notis. Yang berikut adalah cap dagang atau cap dagang berdaftar bagi Sony Corporation: "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" dan logonya masing-masing. Istilah HDMI dan HDMI High-Definition Multimedia Interface, dan Logo HDMI ialah tanda dagang atau tanda dagang berdaftar HDMI Licensing LLC di Amerika Syarikat dan negara-negara lain. Semua tanda dagangan lain adalah tanda dagangan pemilik mereka masing-masing. Sesetengah imej disimulasi bagi tujuan ilustrasi.

AR جميع الحقوق محفوظة. تمنع إعادة الإنتاج بشكل كلي أو جزئي. ليست جميع الموديلات المبينة متوفرة في جميع الدول/المناطق. الكتيب دون إشعار يمكن أن تتغير المعلومات الواردة في هذا. العلامات التجارية أو العلامات التجارية المسجلة التالية تخص Sony Corporation: "Sony" و "Handycam" و "InfoLITHIUM" و "ActiFORCE" وشعاراتها الخاصة بها. مصطلحات HDMI و HDMI High-Definition Multimedia Interface و شعار HDMI هي علامات تجارية أو علامات تجارية مسجلة لشركة HDMI Licensing LLC في الولايات المتحدة الأمريكية والدول الأخرى. جميع العلامات التجارية الأخرى تعد علامات تجارية لأصحاب العلامة الخاصة. بعض الصور مقلدة لأغراض التوضيح.

FR Tous droits réservés. Toute reproduction totale ou partielle est interdite. Tous les modèles ne sont pas disponibles dans tous les pays/régions. Les illustrations de cette brochure sont des photos. Les caractéristiques et les spécifications sont modifiables sans préavis. Les marques suivantes sont des marques ou des marques déposées de Sony Corporation: « Sony », « Handycam », « InfoLITHIUM », « ActiFORCE » et leurs logos respectifs. Les termes HDMI et HDMI High-Definition Multimedia Interface, ainsi que le logo HDMI sont des marques commerciales ou déposées de HDMI Licensing LLC aux Etats-Unis et dans d'autres pays. Toutes les autres marques commerciales appartiennent à leurs détenteurs respectifs. Certaines images sont simulées à des fins d'illustration.

DE Alle Rechte vorbehalten. Reproduktionen – auch auszugsweise – sind nicht gestattet. Einige Modelle sind nicht in allen Ländern/Regionen erhältlich. Verwendet wurde ausschließlich selbst produziertes Bildmaterial. Irrtümer und technische Änderungen vorbehalten. „Sony“, „Handycam“, „InfoLITHIUM“, „ActiFORCE“ und die entsprechenden Logos sind Marken oder eingetragene Marken der Sony Corporation. HDMI und HDMI High-Definition Multimedia Interface sowie das HDMI-Logo sind Markenzeichen oder eingetragene Markenzeichen von HDMI Licensing LLC in den Vereinigten Staaten und anderen Ländern. Alle anderen Markenzeichen sind Eigentum der jeweiligen Eigentümer. Manche Bilder wurden zu Anschauungszwecken simuliert.

RU Все права сохраняются. Запрещается воспроизведение всего текста или его части. Не все модели доступны во всех странах/регионах. Иллюстрации в брошюре являются постановочными фотографиями. Приведенные в брошюре функции и технические характеристики могут быть изменены без предупреждения. Ниже приводятся товарные знаки или зарегистрированные товарные знаки Sony Corporation: "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" и соответствующие логотипы. Термины HDMI, HDMI High-Definition Multimedia Interface и логотип HDMI являются товарными знаками или зарегистрированными товарными знаками HDMI Licensing LLC в США и других странах. Все остальные товарные знаки являются собственностью соответствующих владельцев.

PL Wszystkie prawa zastrzeżone. Zabrania się reprodukcji w całości i we fragmentach. Dostępność poszczególnych modeli zależy od kraju/regionu. Ilustracje wykorzystane w folderze są fotografiami. Zamieszczone w folderze funkcje i dane techniczne mogą ulec zmianie. "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" i odpowiednie logo są znakami towarowymi lub zarejestrowanymi znakami towarowymi firmy Sony Corporation. Określenia HDMI i HDMI High-Definition Multimedia Interface oraz logo HDMI to znaki towarowe lub zarejestrowane znaki towarowe HDMI Licensing LLC w Stanach Zjednoczonych i innych krajach. Wszystkie pozostałe znaki towarowe są własnością odpowiednich firm. Niektóre obrazy są symulacjami i mają charakter poglądowy.

KR 모든 권리 보유. 전체 또는 부분적으로 재생하는 행위는 금지됩니다. 모든 모델이 모든 나라/지역에서 판매되는 것은 아닙니다. 본 리플릿의 내용은 예고 없이 변경할 경우가 있습니다. "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" 및 각각의 로고는 Sony Corporation의 상표 또는 등록 상표입니다. HDMI 및 HDMI High-Definition Multimedia Interface와 HDMI 로고는 미국 및 기타 국가에서 HDMI Licensing LLC의 상표 또는 등록 상표입니다. 모든 상표는 각각의 소유 회사의 고유 상표입니다. 일부 이미지는 그림용으로 시뮬레이션된 것입니다.

TH สงวนลิขสิทธิ์ ห้ามทำซ้ำส่วนหนึ่งส่วนใดหรือทั้งหมดโดยไม่ขออนุญาตจากเจ้าของลิขสิทธิ์ในทุกประเทศและเขตเศรษฐกิจ ขอสงวนสิทธิ์ในการเปลี่ยนแปลงข้อมูลในแผ่นพับโดยไม่แจ้งให้ทราบล่วงหน้า เครื่องหมายการค้าหรือเครื่องหมายการค้าจดทะเบียนต่อไปนี้เป็นของบริษัท โซนี่ คอร์ปอเรชั่น จำกัด: "Sony", "Handycam", "InfoLITHIUM", "ActiFORCE" รวมถึงโลโก้ของแต่ละเครื่องหมาย ชื่อ HDMI และ HDMI High-Definition Multimedia Interface และโลโก้ HDMI เป็นเครื่องหมายการค้าหรือเครื่องหมายการค้าจดทะเบียนของ HDMI Licensing LLC ในประเทศสหรัฐอเมริกาและประเทศอื่นๆ เครื่องหมายการค้าอื่น ๆ เป็นเครื่องหมายการค้าของผู้ทรงสิทธิที่รับผิดชอบ บางรูปถ่ายแต่งเพื่อประกอบการอธิบาย

PR تمامی حقوق محفوظ است. دوباره سازی یک قطعه یا کل سیستم ممنوع می باشد. همه مدل های ذکر شده در همه کشورها/ مناطق موجود نمی باشند. اطلاعات موجود در این دفترچه ممکن است بدون اطلاع قبلی تغییر کند. علائم زیر، مارکهای تجاری یا مارکهای تجاری ثبت شده شرکت سونی Sony Corporation می باشند: "Sony"، "Handycam"، "InfoLITHIUM"، "ActiFORCE" و آرم های مربوط به آنها. واژه های HDMI و HDMI High-Definition Multimedia Interface و لوگوی HDMI، علائم تجاری یا علائم تجاری ثبت شده HDMI Licensing LLC در ایالات متحده و دیگر کشورها می باشد. سایر مارک های تجاری، مارک های تجاری صاحبان آنها می باشد. بعضی تصاویر به منظور توضیحات شبیه سازی شده اند.





Garantie d'un an protégeant les consommateurs

Sony du Canada Ltée (Sony), sous réserve des modalités et conditions indiquées aux présentes, garantit le présent produit contre tout défaut de fabrication ou toute défaillance des matériaux entrant dans sa fabrication pour la période de garantie spécifiée. Si un défaut de fabrication ou une défaillance des matériaux survient pendant la période de garantie spécifiée, Sony veillera à réparer le produit en y effectuant tous les remplacements de pièces nécessaires par des pièces neuves ou remises à neuf et ce, sans frais quant aux pièces ou à la main-d'œuvre.

La période de garantie est la suivante :

Main-d'œuvre et pièces : UN an à compter de la date d'achat originelle au détail.

Conditions :

Modifications, réparations, abus non autorisés, etc. :

La présente garantie limitée est nulle si : (i) l'unité a été altérée, modifiée ou installée aux fins d'usage commercial, ou réparée ou entretenue par une personne autre qu'un centre de réparation autorisé par Sony afin d'effectuer de tels services. (ii) le numéro de série de l'unité a été altéré ou retiré, ou (iii) l'unité a subi un accident, un mauvais usage, un abus ou a été utilisée pour un usage contraire aux directives du mode d'emploi. L'opinion de Sony à cet effet est sans appel.

Usage commercial ou location :

Ce produit n'est pas conçu pour usage commercial ou location. Advenant que cette unité soit utilisée à des fins commerciales ou comme unité en location, la période de garantie limitée pour les pièces et la main-d'œuvre est réduite à 90 jours après la date d'achat originelle. L'opinion de Sony à cet effet est sans appel.

Exclusions :

La présente garantie limitée exclut les armoires, accessoires ou piles brisés ou endommagés; les antennes et stylets exposés, ou la défaillance de pièces découlant de leur usure normale. La présente garantie limitée exclut l'entretien régulier des produits, tels que le nettoyage, la lubrification ou les vérifications.

La présente garantie limitée ne couvre que l'équipement fourni avec le produit. Elle ne couvre aucune assistance technique quant à l'usage d'équipement ou de logiciel et ne couvre aucun logiciel, fourni ou non avec le produit. De tels logiciels sont fournis « TELS QUELS », sauf aux termes d'une garantie limitée de logiciel comprise dans l'emballage. Veuillez consulter les ententes d'usager comprises avec le produit pour connaître vos droits et obligations relativement aux logiciels.

La présente garantie n'est valide qu'au Canada.

Livraison :

L'unité doit être livrée en personne à l'un des centres de réparation Sony du Canada, ou expédiée, dans son emballage d'origine ou un emballage équivalent accordant un niveau de protection équivalent, ainsi que des directives indiquant l'emplacement au Canada où l'unité peut être retournée. Si l'unité est expédiée à un centre de réparation, l'unité réparée sera retournée au client port payé. Tous les accessoires compris avec l'unité doivent être énumérés individuellement sur le bordereau d'expédition aux fins de documentation d'expédition. Les accessoires défectueux doivent être expédiés à Sony à titre d'article distinct à réparer. Sony n'est pas responsable des pertes ou dommages des articles en transit expédiés aux centres de réparation. Toute pièce remplacée aux termes de la présente garantie limitée devient la propriété de Sony. **Vous êtes responsable de faire une copie de sauvegarde de toutes données, logiciels ou autres que vous auriez pu stocker ou conserver sur votre unité. Il est fort probable que des données, logiciels ou autres seront perdus ou reformatés pendant la réparation, et Sony n'est pas responsable de tels dommages ou pertes.**

Preuve d'achat :

La présente garantie limitée s'applique au produit à compter de la date d'achat originelle au détail. Par conséquent, le propriétaire doit présenter une preuve d'achat originelle au détail.

Produit visés par la présente garantie :

La présente garantie limitée s'applique aux produits Sony suivants, et peut aussi s'appliquer à d'autres produits s'ils font partie de l'emballage d'origine du produit :

Accessoires audio / vidéo
Produits audio / vidéo pour l'automobile
Caméras vidéo et accessoires connexes
Caméras photos numériques de type Cyber-shot® et accessoires connexes
Radios-réveil munis d'un lecteur CD
Lecteurs numériques de médias/Lecteurs numériques de musique
Imprimantes / scanners de photos numérisées
Enregistreurs numériques de la parole
Enregistreurs numériques à circuits intégrés
Systèmes audio pour la maison
Systèmes de cinéma-maison
Lecteurs et enregistreurs vidéo pour la maison
Produits de navigation mobile
Magnétophones à microcassettes
Baladeurs Net MD/H-MMD
Baladeurs réseau
Lecteurs CD portables / munis d'un récepteur radio
Lecteurs DVD portables
Radios portables de type « casque d'écoute stéréo »
Enregistreurs/lecteurs portables à MiniDisques
Radios portables et lecteurs CD / avec lecteur cassettes
Radios portables
Récepteurs-enregistreurs radiophoniques combinés
Magnétoscopes à cassettes et accessoires connexes
Baladeurs vidéo

SAUF DANS LA MESURE OÙ LA LOI APPLICABLE L'INTERDIT, TOUTES LES AUTRES GARANTIES ET CONDITIONS, EXPRESSES OU IMPLICITES, RELÉVANT OU NON D'UNE LOI, D'UN ACTE LÉGISLATIF, D'HABITUDES COMMERCIALES ÉTABLIES OU D'USAGES DU COMMERCE, Y COMPRIS, NOTAMMENT, TOUTE GARANTIE IMPLICITE DE QUALITÉ MARCHANDE OU DE L'ADAPTABILITÉ À UNE FIN PARTICULIÈRE, SONT DÉSAVOUÉES. SONY NE SAURAIT EN AUCUN CAS ÊTRE RESPONSABLE D'UN MONTANT SUPÉRIEUR AU PRIX RÉEL D'ACHAT DU PRODUIT; ET SONY NE SAURAIT EN AUCUN CAS ÊTRE RESPONSABLE DE DOMMAGES SPÉCIAUX, ACCESSOIRES OU CONSÉCUTIFS SUBIS RELATIVEMENT AU PRODUIT. SONY N'ASSUME NI N'AUTORISE AUCUN REPRÉSENTANT OU QUICONQUE À ASSUMER EN SON NOM UNE OBLIGATION OU RESPONSABILITÉ AUTRE QUE CELLES QUI SONT EXPRESSÉMENT DÉCRITES AUX PRÉSENTES. L'EXCLUSION DE GARANTIES ET CONDITIONS IMPLICITES N'EST PAS AUTORISÉE DANS CERTAINS TERRITOIRES.

Enregistrement du produit :

Merci d'avoir choisi un produit Sony. Chez Sony, nous nous efforçons de créer des produits de la plus haute qualité afin de renforcer votre expérience et votre satisfaction. Afin d'assurer le meilleur soutien qui soit à votre produit, nous vous demandons de remplir une fiche d'enregistrement de produit sur le site www.fr.SonyStyle.ca/enregistrement dans les quatre-vingt-dix (90) jours suivant la date d'achat.

Pour obtenir de l'aide concernant le service ou obtenir des renseignements sur le produit ou concernant l'enregistrement du produit, veuillez appeler le 1-877-899-7669. Pour obtenir des renseignements concernant la garantie prolongée Sony Care, veuillez appeler le 1-800-773-9667.

Pour le support technique et les mises à jour en ligne en tout temps, vous pouvez visiter le

www.fr.sony.ca/sonyca/view/french/support_electronics.shtml,

ou appeler le Centre d'information à la clientèle Sony au 1-877-899-7669.



Consumer 1 Year Warranty

Sony of Canada Ltd. ("Sony") hereby warrants, subject to the terms and conditions herein set forth, this product against defects in material and workmanship during the specified warranty period. In the event of a defect of material or workmanship during the specified warranty period, Sony will repair the same, effecting all necessary parts replacements with either new or refurbished parts, without charge for either parts or labour.

The warranty period is as follows:

Labour and Parts: ONE year from the date of original purchase at retail.

Conditions:

Unauthorized Modification, Repair, Abuse, Etc.:

This limited warranty is void if: (i) the unit has been previously altered, modified, installed or mounted for commercial use, or repaired or serviced by anyone other than the service facilities authorized by Sony to render such services, (ii) the serial number on the unit has been altered or removed, or (iii) the unit has been subject to accident, misuse, abuse or operated contrary to the instructions contained in the Owner's Manual. The opinion of Sony with respect to this matter shall be final.

Commercial Use or Rental:

This product is not intended for commercial use or rental. Should this unit be used at any time for commercial purposes or as a rental unit, the limited warranty period for parts and labour shall be 90 days from the date of original purchase at retail. The opinion of Sony with respect to this matter shall be final.

Exclusions:

This limited warranty does not extend to broken or damaged cabinets, accessories, batteries, exposed antennas and styluses, or to parts wearing out due to normal wear and tear. This limited warranty does not cover regular product maintenance such as cleaning, lubrication or check-ups.

This limited warranty covers only the hardware components packaged with the product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the product. Any such software is provided "AS IS" unless expressly provided for in any enclosed software limited warranty. Please refer to the End User License Agreements included with the product for your rights and obligations with respect to the software.

This limited warranty is valid only in Canada.

Delivery:

The unit must be delivered in person to one of the nearest Sony service facilities in Canada, or shipped, freight prepaid, in either its original package or similar package affording an equal degree of protection and with instructions indicating a location within Canada to which the unit may be returned. If shipped to the service facility, the repaired unit will be returned to customer freight prepaid. All accessories that are enclosed with the unit must be listed individually on the packing slip for the shipping documentation. Defective accessories should be shipped to Sony as a separate repair item. Sony shall have no liability whatsoever for loss or damage in transit of items shipped to service facilities. Any parts replaced under this limited warranty will become the property of Sony. **It is your responsibility to back up any data, software or other materials you may have stored or preserved on your unit. It is likely that such data, software, or other materials will be lost or reformatted during service and Sony will not be responsible for any such damage or loss.**

Proof of Purchase:

This limited warranty applies to the product from the original date of purchase at retail. The owner must furnish proof of original purchase at retail.

Subject Products:

This limited warranty is applicable to the following Sony Products, and may also be applicable to other Sony products if enclosed in the product's original packaging:

Audio/Video Accessories
Car Audio/Video Products
Camcorders and related accessories
Cyber-shot® Digital still Camera and related accessories
Clock Radio/with CD Players
Digital Media Players/ Digital Music Players
Digital Photo Printers/Scanners
Digital Voice Recorder
IC Chip Recorders
Home Audio Systems
Home Theatre System
Home Video Player and Recorders
Mobile Navigation Products
Microcassette recorder
Net MD/H-MMD Walkman
Network Walkman
Portable CD Players/ with Radio
Portable DVD Players
Portable Headset Stereo Radios
Portable MiniDisc Recorder/Players
Portable Radio CD Players /with Cassette
Portable Radio
Radio Cassette Combinations
Video Cassette Recorders and related accessories
Video Walkman

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, WHETHER ARISING BY LAW, BY STATUTE, BY COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, MERCHANTABLE QUALITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. UNDER NO CIRCUMSTANCES SHALL SONY BE LIABLE FOR AN AMOUNT GREATER THAN THE ACTUAL PURCHASE PRICE OF THE UNIT OR FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES SUSTAINED IN CONNECTION WITH SAID UNIT AND SONY NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OBLIGATION OR LIABILITY OTHER THAN SUCH AS IS EXPRESSLY SET FORTH HEREIN. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES AND CONDITIONS.

Product Registration:

Thank you for choosing a Sony product. At Sony, we strive to create products of the highest quality to enhance your experience and enjoyment. To provide the best support for your product, we request that you complete a product registration form at www.SonyStyle.ca/registration within 90 days of purchase.

For service assistance, product information, or product registration please call: 1-877-899-7669. For information about a Sony Care Extended Warranty, please call 1-800-773-9667.

For online product support and updates at any time, please visit:
www.sony.ca/sonyca/view/english/support_electronics.shtml,
or call the Sony Customer Information Centre at 1-877-899-7669.

SONY®

Camcorder

LIMITED WARRANTY (US Only)

Sony Electronics Inc. ("Sony") warrants this product against defects in material or workmanship for the time periods and as set forth below when purchased directly from Sony or a Sony Retailer. Pursuant to this Limited Warranty, Sony will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product with a new or refurbished product. For purposes of this Limited Warranty, "refurbished" means a product or part that has been returned to its original specifications. **In the event of a defect, these are your exclusive remedies.**

Labor: For a period of ninety days from the original date of purchase of the product ("Labor Warranty"), Sony will, at its option, repair or replace with new or refurbished product, product determined to be defective. If Sony elects to replace the product after this Labor Warranty has expired but while the Parts Warranty below is still in effect, it will do so for the applicable labor charge.

Parts: For a period of one year from the original date of purchase of product ("Parts Warranty"), Sony will supply new or refurbished replacement parts in exchange for parts determined to be defective.

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed software Limited Warranty. Please refer to the End User License Agreements included with the Product for your rights and obligations with respect to the software.

Instructions: To obtain warranty service, you must deliver the product, freight prepaid, in either its original packaging or packaging affording an equal degree of protection to the Sony authorized service facility specified. **It is your responsibility to backup any data, software or other materials you may have stored or preserved on your unit. It is likely that such data, software, or other materials will be lost or reformatted during service and Sony will not be responsible for any such damage or loss.** A dated purchase receipt from Sony or a Sony Retailer is required. For specific instructions on how to obtain warranty service for your product,

Visit Sony's Web Site:
www.sony.com/support

Or call the Sony Customer Information Service Center
1-800-222-SONY (7669)

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)

Repair / Replacement Warranty: This Limited Warranty shall apply to any repair, replacement part or replacement product for the remainder of the original Limited Warranty period or for ninety (90) days, whichever is longer. Any parts or product replaced under this Limited Warranty will become the property of Sony.

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary use; it does not cover product issues caused by any other reason, including but not limited to acts of God, misuse, limitations of technology, or modification of or to any part of the Sony product or product purchased from other than Sony or a Sony Retailer. To determine if a retailer is part of the Sony Retailer Network, please contact Sony's Customer Service Call Center or go to www.sony.com/support. This Limited Warranty does not cover Sony products sold AS IS or WITH ALL FAULTS or consumables (such as fuses or batteries). This Limited Warranty is invalid if the factory-applied serial number has been altered or removed from the product. This Limited Warranty is valid only in the United States.

LIMITATION ON DAMAGES: SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.

DURATION OF IMPLIED WARRANTIES: EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may have other rights which vary from state to state.

4-448-189-01



Printed in China